



# SOYBEAN INOCULANT

Not a plant food product

For retail application only

### MINIMUM GUARANTEED ANALYSIS

ACTIVE: 2 x 10<sup>7</sup>% Lipo-chitooligosaccharides  
5 billion (5 x 10<sup>9</sup>) *Bradyrhizobium japonicum* viable cells per gram  
0.015% Isoflavonoids  
INERT:  
Water-based medium >99%

NET CONTENTS:  1 x 400 units per case SN 082712  
 4 x 2 x 50 units per case

NET WEIGHT: 39 lbs. (17.75 kg)

The purpose is to add bacteria to the soybean which will convert atmospheric nitrogen gas into ammonia nitrogen which is a usable source to the plant.

MANUFACTURED FOR  
HELENA CHEMICAL COMPANY  
225 SCHILLING BOULEVARD, SUITE 300  
COLLIERVILLE, TN 38017

### HOW TO APPLY

Ensure that treater has been properly calibrated.  
Pour First Up® ST Soybean Inoculant liquid into mix tank.  
Pour in liquid additive  
Start mix tank agitation  
Apply at recommended rate  
Prepare only as much First Up® ST Soybean Inoculant as will be used that day.

### SOYBEAN APPLICATION RATES

2.8 fl oz / 100 lbs of seed or  
1.4 fl oz / 140,000 seed count unit (.0003 mg / seed) based on 2,800 seeds/lb seed size

### TIME IN TANK

24 hours when alone in a dedicated mix tank  
4 hours when combined in the mix tank with fungicide and/or insecticide seed treatments

### ON-SEED STABILITY AND SEED TREATMENT RECOMMENDATIONS

If used with seed treatments, apply recommended rate to First Up ST Soybean Inoculant mixture and agitate. We do not recommend the use of additional water, polymers, or dyes beyond what is required with the seed treatment. If using additional water with First Up® ST Soybean Inoculant, use chlorine-free water. If using additional water with fungicide and insecticides, use chlorine-free water.

### SPECIAL RECOMMENDATIONS FOR MOLYBDENUM SEED TREATMENTS

12-hours time on-seed compatibility prior to planting when used with products such as ApronMaxx® + Moly or any molybdenum containing seed treatments, because the concentration of molybdenum in these seed treatments is toxic to *Bradyrhizobium japonicum*.

### SPECIAL RECOMMENDATIONS FOR NEW GROUND OR ADVERSE CONDITIONS

Land being planted to soybeans for the first time, land coming out of CRP, land not having soybeans planted in the rotation for the past 4 years, and planting in adverse conditions requires special attention. Use First Up® ST Soybean Inoculant on-seed followed by an in-furrow or hopperbox application of a quality inoculant. Adding in-furrow or hopperbox rhizobia will enhance nodulation on the lateral roots.

### PRODUCT STABILITY AND STORAGE RECOMMENDATIONS

Unopened package: Two years (2 season shelf life)

Opened unused package: 24 hours shelf life  
Store in a cool, dry place out of direct sunlight.  
Store between 40 and 77°F.  
Open package only when ready for use.  
Use before expiration date.

### CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES

Read the Conditions of Sale – Warranty and Limitations of Liability and Remedies before using this product. If the terms are not acceptable, return the product, unopened, and the full purchase price will be refunded. The seller warrants that this product contains a minimum number of *Bradyrhizobium japonicum*, lipo-chitooligosaccharide viable cells and isoflavonoids as specified on this label. The seller makes no other warranty expressed or implied as to product viability or performance since storage, use, and growing conditions are beyond the seller's control. Seller's guarantee is limited to the terms set out on the label and subject thereto. Buyer assumes the risk to persons or property arising from the use or handling of this product and accepts the product on that condition.

The directions on this label are believed to be reliable and should be followed carefully. Failure to follow label directions may cause injury to crops, animals, man or the environment. Helena Chemical Company (the "Company") warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use subject to the factors noted above which are beyond the control of the Company. The Company makes no other warranties or representations of any kind; express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose, and no such warranty shall be implied by law.

The exclusive remedy against the Company for any cause of action relating to the handling or use of this product shall be limited to, at Helena Chemical Company's election, one of the following:

1. Refund of the purchase price paid by buyer or user for product bought, or
2. Replacement of the product used

To the extent allowed by law, the Company shall not be liable and any and all claims against the Company are waived for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income. The Company and the seller offer this product and the buyer and user accept it, subject to the foregoing conditions of sale and limitation of warranty, liability and remedies.

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